expressing not words, but ideas, they used be between persons who speak different languages thev are understood in Pe<mark>ki</mark>n and in Canton although the languages of these places auite dissimilar. But they are cumbrous, and unless bv artificial complicated many conventionssuch as, for instance, the addition of symbols signify sounds—they are hardly capable pressing abstract ideas or shades of meaning. The nations of the world have generally write phonograph<mark>lc</mark>ally, that is to say, emplov symbols to denote not things, or the ideas things. but the sounds by which things ideas or denoted in speech. are This improvement was discovered very slowly. It must have been unscientific difficult minds for conceive of reproduction of a sound by a mark or symbol. and the first dawnings of the idea have may of punning—bv arisen out the employment. for instance, of the picture of a post to signify postoffice. picture this case the In actuallv recalls not an object, but a sound, and is really graphic. The next step would be to use pictorial symbols to denote the first syllable of the name the object that they represented: thus the picture of a cabin might stand for the syllable analysis of syllables into letters, and the allotabbreviated of symbols ment individual letters was the final stage of the invention. But phonowriting could easily graphic be

misunderstood and took time to gain confidence. In the alvohic inscriptions of Egypt phonographic the representation of an idea is commonly by an ideographic picture known as the determinant !: as a child, after scrawling bullock." might add. for greater clearness.
picture of the animal.
The most difficult step in the development of